APPENDIX A - MASTER ASSESSMENT LIST

8 2 8

This appendix lists the questions to be used in assessing the RAVUE extrication devices applying the criteria established by the responder Focus Group on April 7, 2004. The SAVER Categories listed in parenthesis with each question are the five evaluation criteria categories that have been established by the Office for Domestic Preparedness – Systems Support Division for internet presentation. Thus, when this report is put in SAVER format, the Evaluator scores will be recomputed to correspond to the SAVER evaluation categories mapped for each question.

Questions 1.1; 9.1; 9.2; 9.3; 11.2; and 16.1 were not used in computing the numerical assessment scores in the Analysis Report and reported in Appendix C.

s S

Somewhat

Adequately

Partially

Fully

Somewhat

Adequately

Partially

s S

Somewhat

Adequately

Partially

Fully

ž

Somewhat

Adequately

Partially

Fully

Can the victim be easily removed from the extrication device by personnel wearing PPE? (SAVER Category - Usability)

1.7

Does each responder appear to have enough room to move

about while all are using the device? (SAVER Category -

1.6

Are the handles on the device large enough for the team to

(SAVER Category - Usability)

mannequin is loaded?

4:

easily grasp them while wearing PPE gloves? (SAVER

Category - Usability)

1. Ease of Use	Use				
How many responders are required to extract a single 200 lbs. mannequin using this device? (SAVER Category - Capability)	1	2	3	4	
 Does the team appear to be adequately trained on the device? (SAVER Category - Capability)	1 Fully	2 Partially	2 3 4 Partially Adequately Somewhat	4 Somewhat	_
 Does the device appear to be large enough to support the victim? (SAVER Category - Capability)	1 Fully	2 Partially	2 3 4 Partially Adequately Somewhat	4 Somewhat	
Can the team easily fasten the device straps when the	1	2	3	4	

RAVUE Extrication Devices - Master Assessment List

	2. Lightweight	veight				
2.1	Can a single responder in Level A PPE easily carry the device? (SAVER Category - Capability)	1 Fully	2 Partially	2 3 4 Partially Adequately Somewhat	4 Somewhat	5 No
2.2	Can the number of responders recommended by the manufacturer, carry, drag, or roll the device without difficulty while in Level A PPE? (SAVER Category - Usability)	1 Fully	2 Partially	2 3 4 Partially Adequately Somewhat	4 Somewhat	ر 8 0
2.3	Can a single responder take multiple devices into the hot zone on a single trip? (SAVER Category - Usability)	1 Yes		2 No		
2.4	Does the device flex excessively when supporting a 200-pound mannequin? (SAVER Category - Capability)	No	2 Somewhat	3 Moderately	1 2 3 4 No Somewhat Moderately Significantly	5 Yes

1.5

	3. Portability	lity				
2.1	Can the team fold the device into a smaller size for transport?	1	2	3	4	5
3.1	(SAVER Category - Deployability)	Fully	Partially	Partially Adequately Somewhat	Somewhat	No
2.0	Can one team member load/unload the device from a vehicle	1	2	3	4	5
3.2	by himself/herself? (SAVER Category - Deployability)	Fully	Partially	Partially Adequately Somewhat	Somewhat	No

	4. Durability	ility				
4.1	Does the device show resistance to significant scarring, scuffing, or weakening? (SAVER Category - Maintainability)	1 Fully	2 Partially	2 3 Partially Adequately	4 Somewhat	5 No
4.2	Did any part(s) of the device fail to function during the assessment? (SAVER Category – Maintainability)	1 No	2 Some	3 Several	4 Many	5 Total
4.3	Did the device failure cause the extrication to be delayed or restarted? (SAVER Category – Maintainability)	0 NA	1 No	2 Moderately	3 4 Significantly Yes	4 Yes
4.4	Did the device failure result in injury to the Responder, damage to his PPE, or potential injury to the victim? (SAVER Category – Maintainability)	0 NA	1 No	2 Might	3 Would	4 Yes

	5. Non-reactive/Reusable/Multiple Extractions	Multiple Ex	tractions			
5.1	Is the device reusable after each extrication? (SAVER Category – Maintainability)	1 Fully	2 Partially	3 Adequately	4 Somewhat	5 No
5.2	Does the device require adjustments and/or replacement of part(s) between uses? (SAVER Category – Maintainability)	1 No	2 Some	3 Several	4 Many	5 Yes

	6. Use in Multiple Environments (Vertical/Horizontal)	its (Vert	ical/Horizont	al)		
6.1	Can the device be used to vertically <i>and</i> horizontally extricate the victim without him/her falling out or injuring team members? (SAVER Category – Capability)	1 Yes	1 2 3 Yes Most Times Some Cases	3 Some Cases	4 Occasionally	5 No
6.2	Does the device hold the mannequin in place in such a way that would not injure a patient and/or restrict the airway or circulation? (SAVER Category – Capability)	1 Fully		2 Partially Adequately	4 Somewhat	5 No
6.3	Does the team appear to be able to maneuver the device through tight spaces (i.e., doorway) without difficulty? (SAVER Category – Capability)	1 Fully		2 Partially Adequately	4 Somewhat	5 No

	7. Ease of Decontamination	amination				
7.1	Does the team appear to be able to fully manipulate the device while undergoing decontamination? (SAVER Category – Maintainability)	1 Fully	2 Partially	2 3 4 Partially Adequately Somewhat	4 Somewhat	5 No
7.2	Can the device be easily rinsed so as to reduce potential cross-contamination of victims? (SAVER Category – Maintainability)	1 Fully	2 Partially	2 3 4 Partially Adequately Somewhat	4 Somewhat	5 No

	8. Equipment Compatibility	npatibility		
8.1	Is the device compatible with medical equipment that may be used during an extrication? (SAVER Category - Capability)	Not Observable	Not Observable. Comments collected during debrief.	during debrief.
8.2	Does the device require other pieces of equipment to maximize its efficiency? (SAVER Category - Capability)	1 No	2 Some Pieces	3 Several Pieces

	9. Cost (Not Observable – For Post Test Analysis Use)	Post Test Ana	lysis Use)			
9.1	Is the cost consistent with other like devices? (SAVER Category – Affordability)	1 Lowest	2 Lower	3 Same	4 Higher	5 Highest
9.2	Are there replacement parts required to reuse the device? (SAVER Category – Affordability)	1 No	2 Yes			
9.3	Is the device cost compatible with the device capabilities and usability? (SAVER Category – Affordability)	1 Fully	2 Generally	3 Adequately	4 Partially	5 No

	10. Ease of Assembly	sembly			
10.1	Does the device require assembly? (SAVER Category - Deployability)	1 No	2 Yes		
10.2	Did the device come with instructions? (SAVER Category – Deployability)	1 Yes	2 No		
10.3	Are assembly instructions affixed to the device? (SAVER Category – Deployability)	1 Yes	2 No		
10.4	Are tools required for assembly? (SAVER Category – Deployability)	1 No	2 Common Tools	3 Special Tools	
10.5	If assembly is required, is the device color coded to ease assembly? (SAVER Category – Deployability)	0 NA	1 Easy to Follow	2 Difficult to Follow	

	11. Device Storage (Not Observable)	ot Observable)
11.1	Can the device be routinely stored on the transport vehicle? (SAVER Category – Deployability)	Comments to be collected during the debrief. 1 3 4 Yes Must Rearrange Some Difficulty No
11.2	Does the device have to be stored in a specific environment which would limit storage options, i.e., temperature, humidity, sunlight? (SAVER Category – Deployability)	For Post Assessment Analysis Use.
11.3	Does the device require a large amount of storage space? (SAVER Category – Deployability)	Comments to be collected during the debrief. 1 2 3 4 5 No Average Slightly More More Excessive

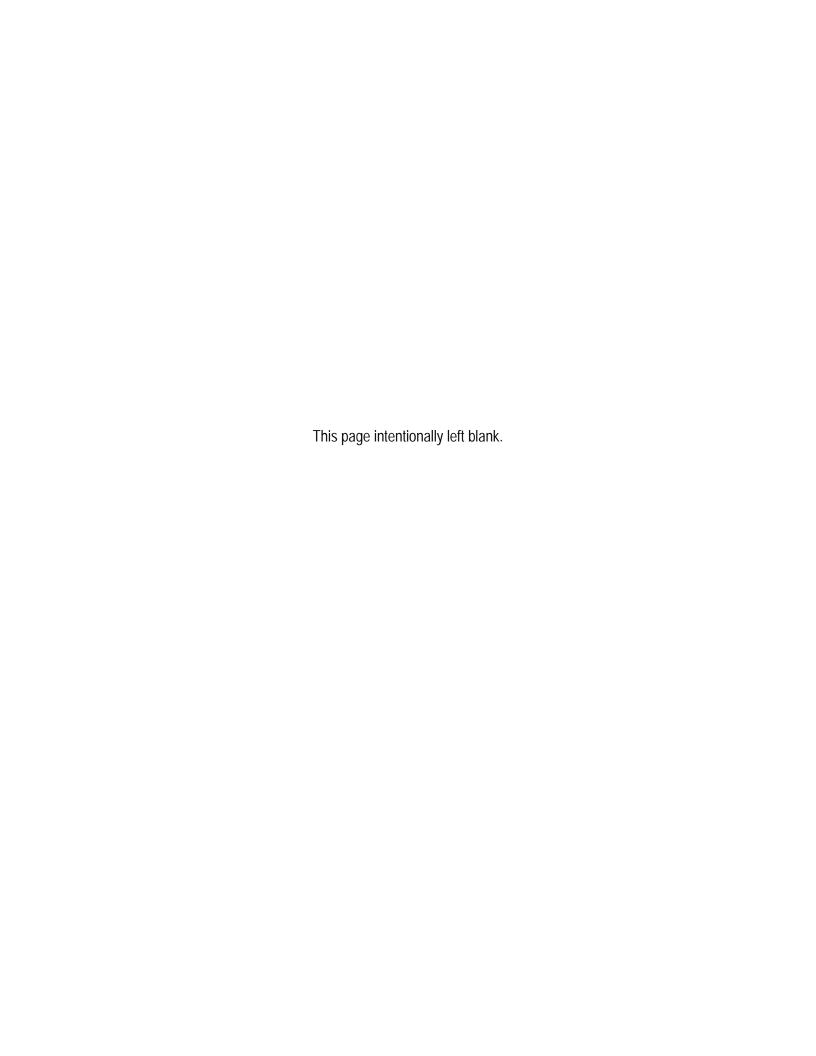
	12. Interagency Compatibility (Collected During the Debrief)	llected Dur	ing the Debi	ief)		
12.1	Is interagency compatibility an issue with this extrication device? (SAVER Category – Capability)	1 No	2 Slight	3 Some	4 Significant	5 Yes
12.2	Is there any special training required that would prevent other agencies from being capable of using the device? (SAVER Category – Usability)	1 No	2 Some	3 Yes		
12.3	If training is required, could it be provided within 15 minutes at the incident site? (SAVER Category – Usability)	0 NA	1 Yes	2 No		

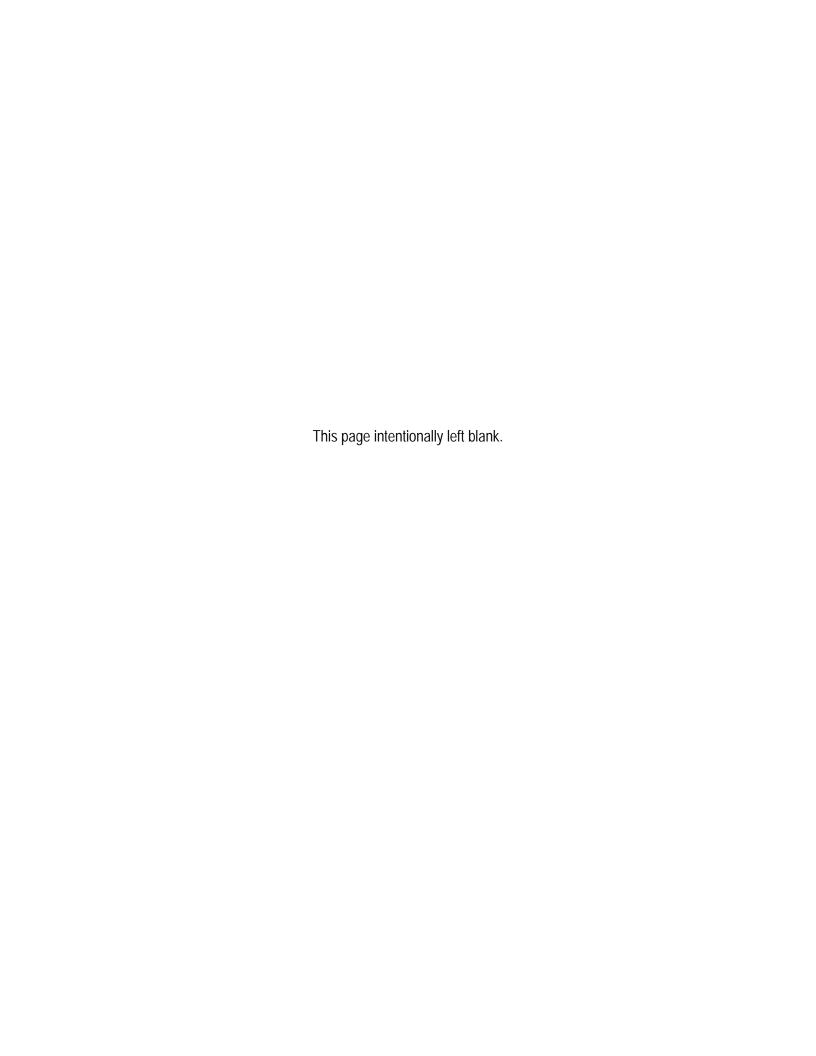
	13. Sizability (Collected During the Debrief)	uring the	Debrief)			
13.1	Does the device permit adjustment for victims of different	1	2	3	4	5
13.1	sizes? (SAVER Category – Capability)	Yes	Significant	Some	Slightly	No
12.7	Are adjustments hard or time consuming to make? (SAVER	1	2	3		
13.2	Category – Usability)	No	Some	Yes		

	14. Simple Clear Instructions or Diagrams (Collected During the Debrief)	ns (Collect	ed During t	he Debrief)		
14.1	Does the device require special instructions pertaining to assembly and/or use? (SAVER Category – Usability)	1 No	2 Slight	3 Some	4 Significant	5 Yes
14.2	Were the instructions thorough enough to illustrate the procedures for assembly and/or use? (SAVER Category – Usability)	0 NA	1 Yes	2 Generally	2 Generally Inadequate	4 None
14.3	Are there hazard warnings in the instructions that are not labeled on the device? (SAVER Category – Usability)	0 NA	1 No	2 Yes		

	15. Recoverability (Collected During the Debrief)	d During 1	he Debrief)				
15.1	Can the device be decontaminated for future use? (SAVER Category – Maintainability)	1 Yes	2 Easily	3 With Difficulty	ficulty	4 N	
15.2	Would decontamination be difficult due to small/tight areas on the device? SAVER Category – Maintainability)	1 No Yes	2 Somewhat	2 3 Somewhat Moderately	4 Significantly	ıntly	5
15.3	Can the device be partially decontaminated and overpacked as contaminated waste? (SAVER Category – Maintainability)	$\frac{1}{\mathrm{Yes}}$	2 Easily	3 With Difficulty	ficulty	4 N	

	16. Disposability (Not Observable – For Post Assessment Analysis Use)	r Post Asse	ssment Anal	ysis Use)	
16.1	Does the device have special disposal requirements, e.g. environmental concerns, etc? (SAVER Category – Maintainability)	1 No	2 Some	3 Yes	





APPENDIX B – EVALUATOR DEBRIEFING WORKSHEETS

This Appendix contains the Debriefing Worksheet filled out by each evaluator after each RAVUE assessment segment. Evaluators spent approximately twenty to twenty-five minutes forming their opinions and observations and then discussed their observation with the group for approximately another thirty minutes, filling out a group debriefing worksheet. Only the individual worksheets were used in computing the device scores as described in the body of the Analysis Report.

RAVUE	Extrica	ition Devi	ces - Eval	uator Deb	riefing Workshe	et
	Date		Group #		Lane #	
	Segm	ent 1 2 3	Device _			
. Ease o	of Use					
1.2 Was	s the team	adequately tra	ained on the de	vice?		
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
What wou	uld have m	ade it better?				
1.3 Doe	es the devic	ee appear to b	e large enough	to support th	e victim?	
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
Would yo	ou change t	he size and/o	r strength of the	e device? If s	o, how?	

	Can the team e				
	1	2	3	4	5
	Fully	Partially	Adequately	Somewhat	No
Vha	nt could be done	to the device	e to make the st	raps more easy	to use?
1.5	Are the handle while wearing			n for the team t	o grasp them easily
	1	2	3	4	5
	Fully	Partially	Adequately	Somewhat	No
X 71			a ta malza it ma	,	-1-11
W ha	nt could be done	to the device	e to make it mo	re easy to use v	vniie wearing gloves?
		oonder appea			re about while all are
	Does each resp	oonder appea			
	Does each respusing the device	ponder appea ce?	r to have enoug	th room to mov	re about while all are
11.6 Wha	Does each respusing the device	oonder appea ce? 2 Partially	r to have enoug 3 Adequately	gh room to mov 4 Somewhat	re about while all are
11.6 Wha	Does each respusing the device 1 Fully at could be done on the could be	oonder appeace? 2 Partially to the device	r to have enoug 3 Adequately e to provide mo	th room to mov 4 Somewhat re room to mov	re about while all are 5 No
1.6 Wha	Does each respusing the device a surface of the device and the done of the done of the could be done of the could	oonder appeace? 2 Partially to the device	r to have enoug 3 Adequately e to provide mo	th room to mov 4 Somewhat re room to mov	re about while all are 5 No ve about per team

_						
2.1	Can a single res	sponder in L	evel A PPE ea	sily carry the de	evice?	
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
Wha	at could be done	to make it ea	asier for one pe	rson to carry th	is device alone?	
2.2 roll t	Can the numbe the device without				ıfacturer carry, dı	ag, or
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
		to allow mul	tiple devices to	be carried into	the zone on a sin	ngle
		to allow mul	tiple devices to	be carried into	o the zone on a sin	ngle
Whatrip?			multiple device		zone on a single	
trip?		sponder take	multiple device	ees into the hot		
2.3	Can a single res	sponder take 1 Ye	multiple devices	ees into the hot 2 No		trip?
2.3	Can a single res	sponder take 1 Ye	multiple devices	ees into the hot 2 No	zone on a single	trip?

	Does the devi	ce from enecoss.	ivery when sup	porting a 200-p	ound mannequin?
	1	2	3	4	5
	No	Somewhat	Moderately	Significantly	Yes
Wha	t advice do you	ı have in maki	ing the device s	tronger and mo	ore supporting?
	ortability Can the team	fold the device	e into a smaller	· size for transp	ort?
	1	2	3	4	5
	Fully	Partially	Adequately	Somewhat	No
Wha	t could be done	e to improve th	ne ability of this	s device to fold	into a smaller size?
3.2					cle by himself/herself?
3.2	Can one team	member load	/unload the dev	ice from a vehi	cle by himself/herself?
3.2		2		4	•
Wha	1 Fully t could be done	2 Partially e to improve the	3 Adequately	4 Somewhat ne responder to	5
Wha	1 Fully t could be done	2 Partially e to improve the	3 Adequately ne ability for or	4 Somewhat ne responder to	5 No
Wha	1 Fully t could be done	2 Partially e to improve the	3 Adequately ne ability for or	4 Somewhat ne responder to	5 No

l. Du	urability					
l.1	Does the device	ce show resis	tance to signific	cant scarring	, scuffing, or weak	ening?
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
	there any considured us				ke it more resilient	to
4.2	Did any part(s) of the devic	ee fail to function	on during the	assessment?	
	1	2	3	4	5	
	No	Some	Several	Many	Total Failure	
	there any considure extended us	0	improving the o		ke it more resilient	to
4.3	Did the device	failure cause	e the extrication	to be delaye	ed or restarted?	
	0	1	2	3	4	
	NA	No	Moderately	Significant	ly Yes	
Wha	at would have p	revented the t	failure from occ	curing?		

NA No Might Would Definitely Would What would have prevented the damage or injury from occurring? Non-Reactive/Reusable/Multiple Extractions 1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 No Some Several Many Yes What could be done to the device and/or its parts to avoid this?			e failure result y to the victin		he Respond	ler, damage to his PPE, o	or
Non-Reactive/Reusable/Multiple Extractions 5.1 Is the device reusable after each extrication? 1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 No Some Several Many Yes		0	1	2	3	4	
Non-Reactive/Reusable/Multiple Extractions 5.1 Is the device reusable after each extrication? 1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 No Some Several Many Yes		NA	No	Might	Would	Definitely Would	
1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 Fully Partially Adequately Somewhat No No Some Several Many Yes	What v	would have p	revented the c	lamage or inju	ary from oc	ecurring?	
Is the device reusable after each extrication? 1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 No Some Several Many Yes							
1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 Fully Partially Adequately Somewhat No No Some Several Many Yes							
Is the device reusable after each extrication? 1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 No Some Several Many Yes							
1 2 3 4 5 Fully Partially Adequately Somewhat No What caused the inability to reuse the device? 1 2 3 4 5 Fully Partially Adequately Somewhat No No Some Several Many Yes							
Fully Partially Adequately Somewhat No What caused the inability to reuse the device? Does the device require adjustments and/or replacement of part(s) between use 1 2 3 4 5 No Some Several Many Yes	Non-	-Reactive/R	Reusable/Mu	ultiple Extra	ctions		
Fully Partially Adequately Somewhat No What caused the inability to reuse the device? Does the device require adjustments and/or replacement of part(s) between use 1 2 3 4 5 No Some Several Many Yes	.1 Is	s the device r	eusable after	each extrication	on?		
Fully Partially Adequately Somewhat No What caused the inability to reuse the device? Does the device require adjustments and/or replacement of part(s) between use 1 2 3 4 5 No Some Several Many Yes							
What caused the inability to reuse the device? 5.2 Does the device require adjustments and/or replacement of part(s) between use 1 2 3 4 5 No Some Several Many Yes		1	2	3	4	5	
Does the device require adjustments and/or replacement of part(s) between use 1 2 3 4 5 No Some Several Many Yes		Fully	Partially	Adequately	Somew	hat No	
Does the device require adjustments and/or replacement of part(s) between use 1 2 3 4 5 No Some Several Many Yes							
1 2 3 4 5 No Some Several Many Yes	What c	aused the ina	ability to reuse	e the device?			
1 2 3 4 5 No Some Several Many Yes							
1 2 3 4 5 No Some Several Many Yes							
1 2 3 4 5 No Some Several Many Yes							
1 2 3 4 5 No Some Several Many Yes	. A D		. 1.				
No Some Several Many Yes).2 D	oes the device	ce require adj	ustments and/	or replacer	nent of part(s) between u	ise
		1	2	3	4	5	
		No	Some	Several	Many	Yes	
What could be done to the device and/or its parts to avoid this?		NO					
		NO					
	What c			e and/or its par	rts to avoid	this?	

6. Use in Multiple Environments (Vertical/Horizontal) **6.1** Can the device be used to vertically *and* horizontally extricate the victim without him/her falling out or injuring team members? 1 2 3 4 5 Yes Most Times Some Cases Occasionally No If not, what caused this to happen, and what could be done to the device to avoid this? **6.2** Does the device hold onto the mannequin in place in such a way that would not injure patient and/or restrict the airway or circulation? 1 2 3 4 5 Fully Partially Adequately Somewhat No Is there anything that could be done to the device to improve its ability to safely hold a patient? **6.3** Does the team appear to be able to maneuver the device through tight spaces (i.e., doorway) without difficulty? 1 2 3 5 4 Partially Adequately Somewhat Fully No

What could be changed about the device to enable it to fit through small spaces?

7. Ea	ase of Deconta	amination				
7.1	Does the team undergoing dec			anipulate the c	levice while it is	
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
If no	ot, what problem	s occurred the	hat hindered dec	contamination	of the device?	
7.2	Can the device victims?	be easily rin	nsed so as to rec	luce potential	cross-contaminatio	n of
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
Is th	ere anything tha	t could be d	one to the devic	e to minimize	cross-contaminatio	on?
8. E	quipment Com	patibility				
8.1	Is the device co extrication?	ompatible w	ith medical equ	ipment that ma	ay be used during the	he
	1	2	3	4	5	
	Fully	Partially	Adequately	Somewhat	No	
Wha	at specific incom	patibility di	d you find?			

8.2 Does the	device require other pi	eces of equipment to maximize its efficiency?
1	2	3
No	Some Pieces	Several Pieces
What additions	al pieces were used or r	recommended?
analysis.		n will be gathered during the post assessment
.Ease of As	-	
10.1 Does the	device require assembl	y?
	1	2
	Yes	No
Can assembly	be performed with 2 m	inutes?
0.2 Did the d	levice come with assem	
	1	2
	Yes	No
What could be	done to improve the as	ssembly instructions?

10.3 Are assembly instruct	ions affixed to the de	vice?
1	2	
Yes	No	
Are assembly instructions r	needed or is assembly	intuitive?
10.4 Are tools required for	assembly?	
1	2	3
No	Common Tools	Special Tools
Were special tools provided organization?	l or are they generally	available in your response
10.5 If assembly is require	d, is the device color	coded to ease assembly?
0	1	2
NA	Easy to Follow	Difficult to Follow
Was color coding logical or	r intuitive (blue to blu	e; red to red; etc.)?

	device be routing	iery stored of	n the transport v	ehicle?	
1	2		3	4	
Yes	Must Rea	ırrange	Some Difficult	y No	
an multiple	devices be store	d on a single	vehicle withou	t major impact?	
			ed during the pount of storage sp	ost assessment an	alysis.
1.5 Does the	_	a large amor	unt of storage sp	5	
No) Average	Slightly	More More	No	
an the device		nake reduce	the storage spac	e burden without	decreasi
ffectiveness?	cy Compatibil	-	with this extric	ation device?	
ffectiveness?		-	with this extric	ation device?	
.Interagence 2.1 Is interagence	gency compatib	oility an issue			

	any special training the pable of using the		that would pr	event other agencie	s from
	1	2		3	
	No	Some		Yes	
What type of t	raining would be	required?			
12.3 If trainin	g is required, cou	ald it be pro	vided within	15 minutes at the in	cident site
	NA	Yes		No	
Can this traini	ng be performed	in a field se	etting?		
3. Sizability 13.1 Does the	e device permit ac	ljustment fo	or victims of o	lifferent sizes?	
1	2	3	4	5	
Yes	Significant	Some	Slight	No	
Is sizing requi	red or desirable v	when using	this device?		

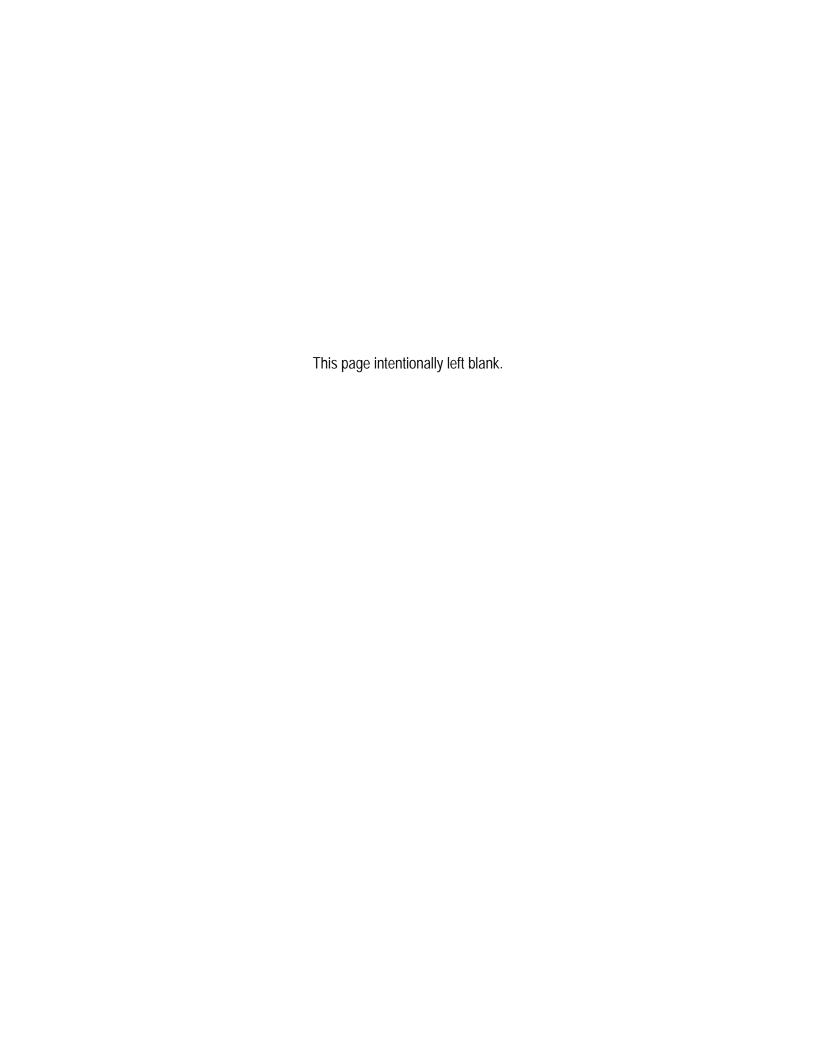
	1	2	3	
	No	Some	Yes	
escribe the ad	justments mad	e?		
Simple Clea	ar Instruction	ıs or Diagrams	S	
.1 Does the o	device require	special instruction	ons pertaining to	assembly and/or use
1	2	3	4	5
No	Slight	Some Si	gnificant	Yes
	r questions on	assembly or use	adequately addr	ressed in the instructi
	r questions on	assembly or use	adequately addr	ressed in the instructi
	r questions on	assembly or use	adequately addr	ressed in the instructi
ovided?	instructions the			procedures for asser
ovided?	instructions the			
ovided? 9.2 Were the in and/or use	instructions the e?	orough enough to	o understand the	procedures for asser

tegrity of the I		Yes rning cause dama	ige or injury to the
tegrity of the I		rning cause dama	age or injury to the
ea ha dacontan			
Le de decontan	ninated for futu	ire use?	
2		3	4
y Eas	ily V	Vith Difficulty	No
			s on the device?
2	3	4	5
Somewha	at Generally	Significantly	Yes
	y Eas device hinders atamination be	y Easily V device hinders complete deconstantianiation be difficult due to	y Easily With Difficulty device hinders complete decontamination? attamination be difficult due to small/tight areas 2 3 4

waste?		·	•	ontaminated
	1	2	3	4
	Yes	Easily	With Difficulty	No
ould the d	evice have to be	cut up to be overp	packed?	

16. Disposibility

16.1 Disposability information will be gathered during the post assessment analysis.



APPENDIX C - DEVICE TABULATIONS

This appendix contains the scoring tabulation tables for the devices tested. The data is presented by device and evaluation criteria. The column labeled Assessment Total in each chart is taken from the individual Evaluator Debriefing Worksheets and is then tabulated using the methodology described in the sample in the Analysis Report.

Table C-1. CombiCarrier® Scoring Tabulations

High Priority Score						
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score	
1.0 Ease of Use	181	50.28	2.51	1.63	4.09	
2.0 Lightweight	67	37.43	1.87	2.5	4.68	
3.0 Portability	68	56.67	2.83	2.63	7.44	
4.0 Durability	32	14.81	0.74	2.75	2.04	
5.0 Reusable/Multiply Extractions ¹	43	35.83	1.79	2.25	4.03	
6.0 Use in Multiple Environments	93	53.14	2.66	4	10.64	
7.0 Ease of Decontamination ²	34	37.78	1.89	2.88	5.44	

Score Subtotal 38.36 Priority Spread Factor x 1

HIGH PRIORITY SCORE 38.36

Medium Priority Score						
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score	
8.0 Equipment Compatibility	41	49.4	2.47	4.75	11.73	
9.0 Cost ³						
10.0 Ease of Assembly	58	46.03	2.3	4.63	10.65	
11.0 Device Storage	37	34.26	1.71	3.75	6.41	

Score Subtotal 28.79
Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 57.58

Low Priority Score						
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score	
12.0 Interagency Compatiblity	54	45	2.25	5.13	11.54	
13.0 Sizability	53	55.21	2.76	4.75	13.11	
14.0 Instructions or Diagrams	51	38.64	1.93	3.75	7.24	
15.0 Recoverability	95	60.9	3.05	6.13	18.7	
16.0 Disposability ⁴						

Score Subtotal 50.59 Priority Spread Factor x 3

LOW PRIORITY SCORE 151.77

Table C-2. Evacuation Chair Calculation Tabulations

High Priority Score						
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score	
1.0 Ease of Use	94	26.11	1.31	1.63	2.14	
2.0 Lightweight	61	29.9	1.5	2.5	3.75	
3.0 Portability	30	25	1.25	2.63	3.29	
4.0 Durability	32	14.81	0.74	2.75	2.04	
5.0 Reusable/Multiply Extractions ¹	43	35.83	1.79	2.25	4.03	
6.0 Use in Multiple Environments	64	35.56	1.78	4	7.12	
7.0 Ease of Decontamination ²	37	46.25	2.31	2.88	6.65	

Score Subtotal 29.02 Priority Spread Factor x 1

HIGH PRIORITY SCORE 29.02

	Mediun	n Priority Score			
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score
8.0 Equipment Compatibility	41	45.05	2.25	4.75	10.69
9.0 Cost ³					
10.0 Ease of Assembly	58	46.77	2.34	4.63	10.83
11.0 Device Storage	46	42.59	2.13	3.75	7.99

Score Subtotal 29.51
Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 59.02

Low Priority Score					
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score
12.0 Interagency Compatiblity	51	42.5	2.13	5.13	10.93
13.0 Sizability	32	33.33	1.67	4.75	7.93
14.0 Instructions or Diagrams	51	38.64	1.93	3.75	7.24
15.0 Recoverability	77	64.17	3.21	6.13	19.68
16.0 Disposability 4					

Score Subtotal 45.78 Priority Spread Factor x 3

LOW PRIORITY SCORE 137.34

Table C-3. Folding Pole Litter Calculation Tabulations

High Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
1.0 Ease of Use	147	43.88	2.19	1.63	3.57			
2.0 Lightweight	53	28.04	1.4	2.5	3.5			
3.0 Portability	31	25.83	1.29	2.63	3.39			
4.0 Durability	34	16.11	0.81	2.75	2.23			
5.0 Reusable/Multiply Extractions ¹	24	20	1	2.25	2.25			
6.0 Use in Multiple Environments	140	80	4	4	16			
7.0 Ease of Decontamination ²	22	27.5	1.38	2.88	3.97			

Score Subtotal 34.91 Priority Spread Factor x 1

HIGH PRIORITY SCORE 34.91

Medium Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
8.0 Equipment Compatibility	65	67.71	3.39	4.75	16.1			
9.0 Cost ³								
10.0 Ease of Assembly	78	59.09	2.95	4.63	13.66			
11.0 Device Storage	46	49.68	2.48	3.75	9.30			

Score Subtotal 39.06 Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 78.12

Low Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
12.0 Interagency Compatiblity	36	30	1.5	5.13	7.7			
13.0 Sizability	72	75	3.75	4.75	17.81			
14.0 Instructions or Diagrams	19	14.39	0.72	3.75	2.7			
15.0 Recoverability	77	63.64	3.18	6.13	19.49			
16.0 Disposability ⁴								

Score Subtotal 47.7 Priority Spread Factor x 3

LOW PRIORITY SCORE 143.1

Table C-4. Henley Spinal Device Calculation Tabulations

	<i>J</i> 1	' ' 0						
High Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
1.0 Ease of Use	244	67.78	3.39	1.63	5.53			
2.0 Lightweight	79	40.72	2.04	2.5	5.1			
3.0 Portability	72	60	3	2.63	7.89			
4.0 Durability	111	51.39	2.57	2.75	7.07			
5.0 Reusable/Multiply Extractions ¹	72	60	3	2.25	6.75			
6.0 Use in Multiple Environments	121	67.22	3.36	4	13.44			
7.0 Ease of Decontamination ²	35	46.67	2.33	2.88	6.71			

Score Subtotal 52.49 Priority Spread Factor x 1

HIGH PRIORITY SCORE 52.49

Medium Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
8.0 Equipment Compatibility	47	48.96	2.45	4.75	11.64			
9.0 Cost ³								
10.0 Ease of Assembly	67	50.76	2.54	4.63	11.76			
11.0 Device Storage	37	34.26	1.71	3.75	6.41			

Score Subtotal 29.81
Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 59.62

Low Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
12.0 Interagency Compatiblity	84	70	3.5	5.13	17.96			
13.0 Sizability	50	52.08	2.6	4.75	12.35			
14.0 Instructions or Diagrams	73	55.3	2.77	3.75	10.39			
15.0 Recoverability	94	75.81	3.79	6.13	23.23			
16.0 Disposability 4								

Score Subtotal 63.93
Priority Spread Factor x 3

LOW PRIORITY SCORE 191.79

Table C-5. HMD Sked® Calculation Tabulations

High Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
1.0 Ease of Use	78	21.67	1.08	1.63	1.76			
2.0 Lightweight	94	46.08	2.3	2.5	5.75			
3.0 Portability	26	21.67	1.08	2.63	2.84			
4.0 Durability	33	15.28	0.76	2.75	2.09			
5.0 Reusable/Multiply Extractions ¹	41	34.17	1.71	2.25	3.85			
6.0 Use in Multiple Environments	84	46.67	2.33	4	9.32			
7.0 Ease of Decontamination ²	26	26	1.3	2.88	3.74			

Score Subtotal 29.35 Priority Spread Factor x 1

HIGH PRIORITY SCORE 29.35

Medium Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
8.0 Equipment Compatibility	38	39.58	1.98	4.75	9.41			
9.0 Cost ³								
10.0 Ease of Assembly	71	53.79	2.69	4.63	12.45			
11.0 Device Storage	29	26.85	1.34	3.75	5.03			

Score Subtotal 26.89 Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 53.78

Low Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
12.0 Interagency Compatiblity	45	37.5	1.88	5.13	9.64			
13.0 Sizability	24	25	1.25	4.75	5.94			
14.0 Instructions or Diagrams	54	42.19	2.11	3.75	7.91			
15.0 Recoverability	44	28.21	1.41	6.13	8.64			
16.0 Disposability 4								

Score Subtotal 32.13 Priority Spread Factor x 3

LOW PRIORITY SCORE 96.39

Table C-6. LifeSlider Calculation Tabulations

High Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
1.0 Ease of Use	136	37.78	1.89	1.63	3.08			
2.0 Lightweight	82	40.2	2.01	2.5	5.03			
3.0 Portability	42	35	1.75	2.63	4.6			
4.0 Durability	69	31.94	1.6	2.75	4.4			
5.0 Reusable/Multiply Extractions ¹	46	38.33	1.92	2.25	4.32			
6.0 Use in Multiple Environments	90	50	2.5	4	10			
7.0 Ease of Decontamination ²	38	34.55	1.73	2.88	4.98			

Score Subtotal 36.41
Priority Spread Factor x 1

HIGH PRIORITY SCORE 36.41

Medium Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
8.0 Equipment Compatibility	52	54.17	2.71	4.75	12.87			
9.0 Cost ³								
10.0 Ease of Assembly	53	41.73	2.09	4.63	9.68			
11.0 Device Storage	61	56.48	2.82	3.75	10.58			

Score Subtotal 33.13
Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 66.26

Low Priority Score								
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score			
12.0 Interagency Compatiblity	51	42.5	2.13	5.13	10.93			
13.0 Sizability	57	61.29	3.06	4.75	14.54			
14.0 Instructions or Diagrams	62	47.69	2.38	3.75	8.93			
15.0 Recoverability	96	61.54	3.08	6.13	18.88			
16.0 Disposability 4								

Score Subtotal 53.28
Priority Spread Factor x 3

LOW PRIORITY SCORE 159.84

Table C-7. Pro-Lite Spineboard® Calculation Tabulations

High Priority Score							
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score		
1.0 Ease of Use	135	37.5	1.88	1.63	3.06		
2.0 Lightweight	66	33.17	1.66	2.5	4.15		
3.0 Portability	72	60	3	2.63	7.89		
4.0 Durability	60	27.78	1.39	2.75	3.82		
5.0 Reusable/Multiply Extractions ¹	41	34.17	1.71	2.25	3.85		
6.0 Use in Multiple Environments	105	58.33	2.92	4	11.68		
7.0 Ease of Decontamination ²	27	33.75	1.69	2.88	4.87		

Score Subtotal 39.32 Priority Spread Factor x 1

HIGH PRIORITY SCORE 39.32

Medium Priority Score							
Assessment Fercentage Score Evaluation Criteria							
8.0 Equipment Compatibility	33	36.26	1.81	4.75	8.6		
9.0 Cost ³							
10.0 Ease of Assembly	69	52.27	2.61	4.63	12.08		
11.0 Device Storage	35	32.41	1.62	3.75	6.08		

Score Subtotal 26.76
Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 53.52

Low Priority Score							
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score		
12.0 Interagency Compatiblity	29	24.17	1.21	5.13	6.21		
13.0 Sizability	57	59.38	2.97	4.75	14.11		
14.0 Instructions or Diagrams	20	15.63	0.78	3.75	2.93		
15.0 Recoverability	75	52.45	2.62	6.13	16.06		
16.0 Disposability 4							

Score Subtotal 39.31 Priority Spread Factor x 3

LOW PRIORITY SCORE 117.93

Table C-8. RED SLED Calculation Tabulations

High Priority Score							
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score		
1.0 Ease of Use	123	34.17	1.71	1.63	2.79		
2.0 Lightweight	99	48.53	2.43	2.5	6.08		
3.0 Portability	76	63.33	3.17	2.63	8.34		
4.0 Durability	44	20.37	1.02	2.75	2.81		
5.0 Reusable/Multiply Extractions ¹	40	33.33	1.67	2.25	3.76		
6.0 Use in Multiple Environments	108	60	3	4	12		
7.0 Ease of Decontamination ²	29	36.25	1.81	2.88	5.21		

Score Subtotal 40.99 Priority Spread Factor x 1

HIGH PRIORITY SCORE 40.99

Medium Priority Score							
Assessment Evaluation Criteria Total Percentage Score Unweighted Score Factor Score							
8.0 Equipment Compatibility	44	45.83	2.29	4.75	10.88		
9.0 Cost ³							
10.0 Ease of Assembly	62	46.97	2.35	4.63	10.88		
11.0 Device Storage	65	62.5	3.13	3.75	11.74		

Score Subtotal 33.5 Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 67

Low Priority Score							
Assessment Fercentage Score Unweighted Score Factor Score							
12.0 Interagency Compatiblity	50	41.67	2.08	5.13	10.67		
13.0 Sizability	47	48.96	2.45	4.75	11.64		
14.0 Instructions or Diagrams	44	34.92	1.75	3.75	6.56		
15.0 Recoverability	60	55.56	2.78	6.13	17.04		
16.0 Disposability ⁴							

Score Subtotal 45.91 Priority Spread Factor x 3

LOW PRIORITY SCORE 137.73

Table C-9. Spineguard® Calculation Tabulations

High Priority Score							
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score		
1.0 Ease of Use	153	42.5	2.13	1.63	3.47		
2.0 Lightweight	62	31.16	1.56	2.5	3.9		
3.0 Portability	72	60	3	2.63	7.89		
4.0 Durability	47	21.76	1.09	2.75	3		
5.0 Reusable/Multiply Extractions ¹	52	43.33	2.17	2.25	4.88		
6.0 Use in Multiple Environments	93	51.67	2.58	4	10.32		
7.0 Ease of Decontamination ²	39	48.75	2.44	2.88	7.03		

Score Subtotal 40.49 Priority Spread Factor x 1

HIGH PRIORITY SCORE 40.49

Medium Priority Score							
Assessment Form Percentage Score Sco							
8.0 Equipment Compatibility	35	37.36	1.87	4.75	8.88		
9.0 Cost ³							
10.0 Ease of Assembly	76	58.46	2.92	4.63	13.52		
11.0 Device Storage	33	30.56	1.53	3.75	5.74		

Score Subtotal 28.14 Priority Spread Factor x 2

MEDIUM PRIORITY SCORE 56.28

Low Priority Score							
Evaluation Criteria	Assessment Total	Percentage Score	Unweighted Score	Weighting Factor	Criteria Score		
12.0 Interagency Compatiblity	41	34.17	1.71	5.13	8.77		
13.0 Sizability	45	46.88	2.34	4.75	11.12		
14.0 Instructions or Diagrams	31	23.48	1.17	3.75	4.39		
15.0 Recoverability	85	61.15	3.06	6.13	18.76		
16.0 Disposability ⁴							

Score Subtotal 43.04 Priority Spread Factor x 3

LOW PRIORITY SCORE 129.12

NOTES:

- 1. Evaluation Criteria 5.0, Non-Reactive/Reusable/Multiple Extractions. It is important to note that the material the devices are constructed from was not tested. A low score (good result) in this criterion indicates that the evaluators were able to reuse the device for multiply extractions and that the device required minor (if any) adjustments between extractions. No scientific testing was conducted to determine the reactivity of the materials with different chemicals or decontaminants.
- 2. Evaluation Criteria 7.0, Ease of Decontamination. It is important to note that actual decontamination was not performed. A low score (good result) in this criterion indicates that the evaluators felt the device could be manipulated during decontamination and that the device could be rinsed to reduce cross-contamination. No scientific testing was conducted to determine absorption or non-absorption of contaminants from the material.
- 3. Evaluation Criteria 9.0, Cost. Cost was not scored by the evaluators and is addressed in paragraph 5.c.ii.
- 4. Evaluation Criteria 16.0, Disposability. Disposability was not scored by the evaluators and is addressed in paragraph 5.d.ii.